7.4 Practice A

MULT. I OR Both

Date

Period

EQ'S TO FLIM. I VARIABLE, Solve each system by elimination. Check both equations with your calculator!!!!

2)
$$(5x + 15y = 15) \times -6 \rightarrow -30x -90 = -90$$

 $(6x + 18y = 18) \times 5 \rightarrow 30x +90 = -90$

INFINITE

SOLUTIONS

-2(5x + 7y = -10)XELIMINATED

FINDX (use either eq):

$$10x + 9(-5) = 5$$

 $10x - 45 = 5$

$$10 \times 50$$

$$10 \times 5$$

$$10 \times 5$$

2)
$$(5x + 15y = 15) \times -6 \rightarrow -30x - 90 = -90$$

 $(6x + 18y = 18) \times 5 \rightarrow 30x + 90 = -90$

Why? b/c the variable dropped out and the stm+ 15

3)
$$(-7x - 3y = 4) \cdot 5 - 7$$

 $(5x - 2y = 22) \cdot 7 - 7$
 $(5x - 2y = 22) \cdot 7 - 7$
 $(5x - 2y = 22) \cdot 7 - 7$
 $(5x - 2y = 22) \cdot 7 - 7$
 $(5x - 2y = 22) \cdot 7 - 7$
 $(5x - 2y = 22) \cdot 7 - 7$
 $(5x - 2y = 22) \cdot 7 - 7$
 $(5x - 2y = 22) \cdot 7 - 7$
 $(5x - 2y = 22) \cdot 7 - 7$

$$-24 - 29$$

$$4 = -6$$

4)
$$(-7x + 6y = -9) \times -2 \rightarrow -14x + 12y = -16 \rightarrow -14x + 12y = -16 \rightarrow -14x + 12y = -16$$

FIND X: 5x-2(-6) = 22 $5 \times + 12 = 27$ -12 - 12

why? b/c the Voriable dropped ort and the STMT 15 FALSE.

NO SOLUTION

Solve each system by elimination. Check Algebraically.

5)
$$-5x - y = 3$$
 $-5x - \sqrt{=3}$ $-5x - \sqrt{=3}$ $-5x - y = 3$ $-5x - y = 3$

6) The water park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 8 vans and 8 buses with 272 students. High School B rented and filled 9 vans and 11 buses with 358 students. Every van had the same number of students in it as did the buses. Find the number of students in each van and in each bus.

EQ's

HSA:
$$(8x + 8y = 272)*9 \rightarrow 72x + 72y = 2448$$

HSB: $(9x + 11y = 358)* - 8 \rightarrow -72x - 88y = -2864$
 $-16y = -416$
 $-16 = -16$

FIND
$$X$$

$$8x + 8(26) = 272$$

$$8x + 208 = 272$$

$$-208 - 208$$

$$8x = 64$$

$$8 \times 8$$

$$8 \times 8$$

Sentence
The ven fits 8 students and the bus
fits 26 students